## **IN THE CLAIMS:**

## 1-19 (Cancelled)

1	20.	(Currently Amended) A method for producing a
2	stabilized enzyme	emulsion for use with a polarographic or amperometric
3	sensor comprising	the steps of:
4	makin	g an aqueous solution of <u>a protein, either</u> a water soluble
5		enzyme that oxidizes an organic substrate to produce
6		hydrogen peroxide or a carrier protein;
7	emuls	ifying a volume of a water immiscible oxygen dissolving
8		substance selected from the group consisting of
9		perfluorocarbons, silicone oils, fluorosilicone oils,
10		aromatic and aliphatic hydrocarbon oils or solids,
11		carotenoids and steroids into the aqueous solution to
12		form an emulsion;
13	conta	cting the emulsion with a protein crosslinking agent; and
14	spread	ding a mixture of the protein crosslinking agent and the
15		emulsion into a uniform layer whereby the crosslinking
16		agent crosslinks the protein within the emulsion becomes
17		<del>crosslinked</del> to form a solid gel.
1	21.	(Currently Amended) The method of Claim 20,
2	wherein <del>to the em</del>	ulsion is contacted with a the aqueous solution contains a
3	carrier protein so	that when prior to contacting the emulsion is contacted
4	with the protein cr	osslinking agent the carrier protein becomes crosslinked.

1 22. (Currently Amended) The method of Claim 21,
2 wherein the aqueous solution contains the water soluble carrier protein and
3 the water soluble enzyme and is added to the emulsion prior to contacting
4 with the protein crosslinking agent.

## 23. (Cancelled).

The method of Claim 23 20, 1 24. (Currently Amended) wherein the oxygen dissolving substance is a perfluorocarbon liquid selected 2 perfluorooctyl bromide, 3 consisting of from the group perfluorodecalin, perfluoroindane, perfluoro-4 perfluorodichlorooctane, phenanthrene, perfluorotetramethylcyclohexane, perfluoropolyalkylether oil, 5 perfluorodimethylethylcyclohexane, perfluoroperfluoromethyldecalin, 6 7 perfluorotrimethyldecalin, perfluoroisopropyldecalin, dimethyldecalin, perfluoropentamethyldecalin, perfluorodiisopropyl decalin, 8 perfluorodiethyldecalin, perfluoromethyladamantane, perfluoro-9 dimethyladamantane, perfluoro-di-xylethane, and perfluoro-6,7 H-undec-6-10 11 ene.

1	25. (Currently Amended) A method for producing a
2	stabilized enzyme emulsion for use with a polarographic sensor comprising
3	the steps of:
4	making an aqueous solution of a carrier protein;
5	emulsifying a volume of a perfluorocarbon liquid into the
6	aqueous solution to form an emulsion;
7	contacting the emulsion with a water soluble enzyme that
8	oxidizes an organic substrate to produce hydrogen
9	peroxide to form a mixture;
10	contacting the mixture with a protein crosslinking agent; and
11	spreading a mixture of the protein crosslinking agent and the
12	emulsion into a uniform layer whereby the crosslinking
13	agent crosslinks at least the carrier protein within the
14	emulsion becomes crosslinked to form a solid gel.

The method of Claim 25, wherein the 26. (Original) 1 oxygen dissolving substance is a perfluorocarbon liquid selected from the 2 perfluorooctyl bromide, perfluorodichlorooctane, consisting of 3 group perfluorophenanthrene, perfluoroindane, perfluorodecalin, 4 perfluorotetramethylcyclohexane, perfluoropolyalkylether perfluoro-5 methyldecalin, perfluorodimethylethylcyclohexane, perfluorodimethyldecalin, 6 perfluoroisopropyldecalin, perfluorotrimethyldecalin, 7 perfluorodiisopropyl decalin, perfluoropentamethyldecalin, 8 perfluoromethyladamantane, perfluoroperfluorodiethyldecalin, 9 dimethyladamantane, perfluoro-di-xylethane, and perfluoro-6,7 H-undec-6-10 11 ene.

- 1 27. (New) The method of Claim 25, wherein the step of 2 contacting the emulsion with a water soluble enzyme follows the step of 3 contacting the mixture with a protein crosslinking agent.
- 1 28. (New) The method of Claim 25, wherein the protein 2 crosslinking agent is selected from the group consisting of glutaraldehyde, 3 carbodiimide, pyrocarbonate, imidoesters, N-hydroxysuccinimid esters and 4 multifunctional epoxides.
- 1 29. (New) The method of Claim 25, wherein the protein crosslinking agent is selected from the group consisting of glutaraldehyde, carbodiimide, pyrocarbonate, imidoesters, N-hydroxysuccinimid esters and multifunctional epoxides.
- 1 30. (New) The method of Claim 21, wherein an aqueous solution of water soluble enzyme that oxidizes an organic substrate to produce hydrogen peroxide is added to the emulsion following the step of contacting with the protein crosslinking agent.